

## Definitions

Title - The name of the science expo project.

Problem or Purpose - The question being asked.

Hypothesis - A statement that explains a group of related observations. An “educated” guess. This is not a statement of something you already know to be true. This is a statement of what you think is true, based on what you already know and the research that you have conducted.

Experiment - An activity designed to test a hypothesis

- a. materials - apparatus and equipment used in performing the experiment.
- b. procedure - sequence of steps followed in the experiment.
- c. controlled experiment - an experiment in which all the conditions are alike except for the condition (variable) being tested.
- d. variable - the factor in an experiment that affects the results of the experiment. An experiment has only one variable.
- e. constant - the factor that does not change throughout an experiment. An experiment can have more than one constant.
- f. control group - the group used for comparison in an experiment. The group that is not exposed to the variable.
- g. experimental group - the group that is exposed to the variable.
- h. standard - a fixed quantity used for comparison.
- i. measurement - any observation made by comparing something to a standard.
- j. model - an idea, system or mathematical expression created by scientists to help them understand how things work. Models are constructed by scientists to help them explain what is happening.

Observation - Any information we gather by using our senses.

Data - Recorded observations.

Conclusion - A statement about the original hypothesis, based on all the information that has been gathered.

Bibliography - a list of sources used to research and gather information.